

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A structural-load-bearing building component comprising:

front and back side portions positioned opposite each other;

joinery portions integral to the front and back side portions, a first joinery portion on the front side portion being connected to a second joinery portion to form a substantially symmetrical joinery member, the front and back side portions with the joinery portions being positioned to define an interior area;

an insulating core in the interior area and substantially fully enclosed by the front and back side portions and joinery portions; and

a shear resistance connector projecting from one of the front side portion and the back side portion into the insulating core, the shear resistance connector having a substantially rectangular cross-sectional shape being substantially rigidly affixed to the insulating core, the front and back side portions, the joinery portions, the insulating core, and the shear resistance connector being interconnected to form a load-bearing component having a strength, a weight, and a strength-to-weight ratio equal to or greater than 33 to 1, wherein the front and back side portions each have a different cross-sectional profile, with the front and the back sections being combined to form an asymmetrical building component.

2. (Cancelled)

3. (Currently Amended) The structural-load-bearing building component of claim 2-1 wherein the asymmetrical building component is positioned with respect to a selected force.

4. (Original) The structural-load-bearing building component of claim 1 wherein the front and back side portions have a width equal to or less than approximately four feet.

5. (Original) The structural building component of claim 1 wherein the front and back side portions have a width of approximately two feet.

6. (Original) The structural-load-bearing building component of claim 1 wherein the substantially symmetrical joinery member is a tongue-and-groove joinery member.

7. (Currently Amended) ~~The structural-load-bearing building component of claim 1, further including~~ A structural-load-bearing building component comprising:
front and back side portions positioned opposite each other;
joinery portions integral to the front and back side portions, a first joinery portion on the front side portion being connected to a second joinery portion to form a substantially symmetrical joinery member, the front and back side portions with the joinery portions being positioned to define an interior area;
an insulating core in the interior area and substantially fully enclosed by the front and back side portions and joinery portions;
a shear resistance connector projecting from one of the front side portion and the back side portion into the insulating core, the shear resistance connector having a substantially rectangular cross-sectional shape being substantially rigidly affixed to the insulating core, the front and back side portions, the joinery portions, the insulating core, and the shear resistance connector being interconnected to form a load-bearing component having a strength, a weight, and a strength-to-weight ratio equal to or greater than 33 to 1, wherein the front and back side portions each have a different cross-sectional profile, with the front and the back sections being combined to form an asymmetrical building component; and

a thermal separator between the first and second joinery portions.

8. (Original) The structural-load-bearing building component of claim 1 wherein the shear resistance connector is integrally connected to the one of the front and back side portions.

9. (Original) The structural-load-bearing building component of claim 1 wherein the shear resistance connector is an elongated connector extending substantially parallel with the joinery portions.

10-28. (Cancelled)

29. (New) The structural-load-bearing building component of claim 7 wherein the asymmetrical building component is positioned with respect to a selected force.

30. (New) The structural-load-bearing building component of claim 7 wherein the front and back side portions have a width equal to or less than approximately four feet.

31. (New) The structural building component of claim 7 wherein the front and back side portions have a width of approximately two feet.

32. (New) The structural-load-bearing building component of claim 7 wherein the substantially symmetrical joinery member is a tongue-and-groove joinery member.

33. (New) The structural-load-bearing building component of claim 7 wherein the shear resistance connector is integrally connected to the one of the front and back side portions.

34. (New) The structural-load-bearing building component of claim 7 wherein the shear resistance connector is an elongated connector extending substantially parallel with the joinery portions.